Michael Rutkowski

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Github: https://github.com/mjr390

Data Analyst passionate about discovering what can be uncovered from large datasets. Persistent learner who loves encountering new challenges and stays calm under pressure. Capable in creating visual representations of data in matplotlib to convey conclusions and present them to an audience.

EDUCATION

- Rutgers, the State University of New Jersey, New Brunswick, NJ

Rutgers Data Analytics Boot Camp

- Montclair State University

B.S. in Business Administration(Finance & Marketing)

TECHNICAL SKILLS

Languages: Python, R, SQL, Javascript, VBA | Data Manipulation & Visualization: Pandas, Matplotlib, Seaborn | Database: SQL, MySQL, SQLAlchemy, MongoDB | Other: GitHub, Excel, MS Office, HTML/CSS, Bootstrap, Jupyter Notebook, VADER, Flask, D3.js, Numpy

PROJECTS

News Mood |Matplotlib, Pandas, Tweepy | GitHub   **Solo Developer**
Data application for visualizing the sentiment of tweets sent out by news organizations
- Analyzed how weather varies based on proximity to the equator
- Used Python, Pandas, matplotlib, JSON, VADER, and Tweepy to collect and analyze the 100 most recent tweets from five different news organizations
- Created and exported visualizations of findings

VBA Stock Analysis | Excel, VBA | GitHub   **Solo Developer**
Script for going through stock market data and returning information about yearly performance
- Computed yearly change in dollars and percentage for numerous stocks
- Used VBA scripting to loop through multiple worksheets to find summary information for each worksheet
- Returned the information on the worksheet with labels

Web Scraping and Databases| Python, Flask, BeautifulSoup, HTML | GitHub **Solo Developer**
Web application that scrapes various sites and displays the information on a single HTML page
- Used multiple scraping methods to gather data and images about the mission to Mars
- Created a Flask application to run the scraping code, return the results into a MongoDB database and then display them onto an HTML page

Heroes of Pymoli | Python, Pandas, Numpy | GitHub   **Solo Developer**
Jupyter Notebook file that imports a csv to analyze the data of a gaming company
- Gathered insights on demographic and sales data
- Used pandas to create data frames for many categories such as age, gender, and purchasable items
- Binned and sorted data frames to find conclusions about the most profitable items, most popular items and how sales were broken down by age

Experience

<u>Professional Gambler - Poker</u> – *Independent*   **August 2014 - May 2018**
- Made strategic decisions based off of other player's tendencies
- Analyzed decision trees to determine which action would yield the highest expected value
- Determined probability of having the best hand while at the table

<u>Administrative Assistant</u> – *CTAS US LLC.*   **March 2013 - August 2014**
- Created pivot tables to display information to clients
- Imported information from databases into Excel
- Pulled, printed, organized, and closed invoices

<u>Data Entry Clerk</u> – *Brunswick Wealth Management*   **June 2011 - December 2011**
- Put together spreadsheets to view financial data
- Converted data from physical forms to digital versions